

SCV/133-58-8-3/30

A Study of the Movement of Materials in a Blast Furnace Using
Radioactive Indicators

- 1) under normal operating conditions, burden materials descend at a minimum rate on the periphery and at a maximum over the zone of combustion of coke in front of tuyeres. Mean rates of descent of materials in the furnace cross-section vary. Under certain conditions, the maximum rate of descent can appear in the central zone;
- 2) the distribution of the maximum rate of descent along the furnace height was as follows: up to 10 m/h in the top part, in the middle part of the stack up to 4-5 m/h and in the bottom third of the stack up to 3.5 m/h;
- 3) deviations of the path of materials from vertical could not be determined by the set-up used in the experiments;
- 4) the actual deviations of the paths of the individual burden components can take place not only towards widening of the stack but also towards zones with a maximum rate of descent;
- 5) the most economical operation of the furnace was characterised by the following distribution of mean relative velocities of the descent materials :

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Distance from the inwall of the throat, mm	0-200	400-1 000	1500-2000	centre
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Mean relative velocity, mm/min	80	100	95	85
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6) the overtaking in time of coke by limestone during
the descent from the stock level to tuyere level is about
10 - 30 min. The maximum overtaking relates to sectors
with a minimum rate of descent. There are 4 tables and
7 figures.

ASSOCIATION: Zavod "Azovstal'" ("Azovstal'" Works)

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1. Blast furnaces---Performance 2. Radioisotopes---Applications

S/137/60/000/010/005/040
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 39, # 22715

AUTHORS: Sorokin, V.A., Lukashov, G.G., Pliskanovskiy, S.T., Temnokhud, N.N.

TITLE: First Results of the Experimental Operation of a System of Devices
for the Automatic Control of Heat Conditions in a Blast Furnace

PERIODICAL: Tr. Donetsk. industr. in-ta, 1959, Vol. 40, pp. 19 - 32

TEXT: In accordance with formulae of heat control submitted, the calculation of basic parameters of blast furnace smelting process depends on 39 variables, some of which are varying slowly with time and the rest are varying continuously. The calculation of blast furnace melting parameters by these formulae, is carried out with the use of computing devices designed by the L'vov Polytechnic Institute. The parameters varying slowly with time, are supplied to the computer with the aid of a manual apparatus handle; the continuously varying parameters are introduced automatically. To obtain continuously the values of these parameters, measuring devices are mounted which are equipped with additional indicators for the trans-

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S/137/60/000/010/005/040
A006/A001

First Results of the Experimental Operation of a System of Devices for the Automatic Control of Heat Conditions in a Blast Furnace

formation of the indices into electric pulses and for the continuous introduction of the variables to the computer. The authors discuss the results of automatic control device and computer operation on blast furnace No. 2 of the "Azovstal' " Plant, which show that the computers make possible the continuous determination of heat conditions of the furnace and the use of these data to regulate the process.

V.B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

STARSHINOV, B.N., kand.tekhn.nauk; LEBEDEV, A.Ye., kand.tekhn.nauk;
LUKASHOV, G.G., inzh.; SAVELOV, N.I., inzh.; TARASOV, D.A., inzh.;
SUPRON, I.Ye., inzh.; TIKHOMIROV, Ye.N., inzh.; SINITSKIY, V.D.,
inzh.; GORBANEV, Ya.S., inzh.; PRIKHODKO, L.D., inzh.

Operation of a blast furnace with a capacity of 1513 m³. Biul.
TSIICHM no.9:1-6 '60. (MIRA 15:4)
(Blast furnaces)

S/133/61/000/004/008/015
A054/A127

AUTHORS: Kazantsev, I. G., Professor; Lukashov, G. G., Engineer;
Bul'skiy, M. T., Engineer; Tarasova, L. P., Engineer, and
Sapelkin, N. F., Engineer

TITLE: The most important properties of arsenic containing MSt.3kp
(MSt.3 kp) type rimming steel

PERIODICAL: Stal' no. 4, 1961, 346 - 350

TEXT: Steel beams, channels, hinges and sheets used in the building industry must come up to the following requirements of TOCT (GOST) 380-50: $\sigma_B = 38$ kg/sq mm; $\sigma_S = 24$ kg/sq mm; $\delta_{10} = 25\%$. Since 1954 products for the building industry have been manufactured in the "Azovstal'" plant of MSt.3kp rimming steel with an arsenic content of 0.13% produced from Kerch' ore. The mechanical properties of the arsenic-containing steel of Azovstal' were tested together with three heats of non-arsenic containing MSt.3kp steel processed in the Yenakiyeo plant from Krivoyrog ores. The composition of the heats is given in Table 1. From the test castings no. 30 channels, 2 meters in length were produced (from the top, medium and bottom part of

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The most important properties of...

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the ingot). Samples were made from the steel channels to test the tensile strength, notch toughness as well as to carry out endurance and brittle fracture tests. The tensile strength values (Table 2) show that for a practically identical composition the arsenic-containing steel displays 2 - 4% higher values than arsenic-free steel, whereas both types have the same values for relative elongation. For notch toughness with Menazhe (Menager) type samples - 45 longitudinal and 45 transversal from each heat - the following average values were obtained:

Test-temperature, °C	+20	0	-20	-40	-60
As-containing					
longitudinal samples	14.0	10.8	8.6	3.7	0.30
transversal "	8.4	6.7	5.4	3.0	0.32
As-free					
longitudinal samples	12.3	9.4	5.8	0.80	0.30
transversal "	7.6	4.9	3.6	0.68	0.28

Thus, notch toughness is higher for arsenic containing steels at each temperature tested. For endurance tests special samples were made. Sheets 11.5 mm thick were cut from the no. 30 channels of both kinds of steel and

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polished on magnetic sheet to 10 mm $\pm$ 0.02 mm. Next arsenic containing and non-containing sheets were welded together (Fig. 1). In this way the two different steel types could be tested simultaneously and under exactly identical conditions. 288 welded samples were tested in all: 72 longitudinal samples, polished on 3 sides, 72 of the same kind, but polished on 4 sides, while from arsenic non-containing steel the same number of samples in the same assortment were investigated. It was found that under symmetrical oscillating bending load, with a stress in the external fibers of the material between 13.4 and 8.5 kg/sq mm (measured at every 0.7 kg/sq mm) most fractures occurred in non-arsenic samples (169 of 240 or 70%). The limit of endurance in arsenic-containing and non-containing steel samples established under symmetrical oscillating bending load with a number of cycles of 10^7 , from 19 to 20 kg/sq mm decreases in the proximity of the welding seams with a bead, to 8.5 - 9.2 kg/sq mm. The tests proved that samples containing arsenic display a greater bending resistance than arsenic-free steels and are thus more suitable for welded building constructions than the latter. Tests on brittle fracturing of both types of steel were carried out at +20, -20 and -60°C on samples as given in Figure 4 and consisting of 50% As-containing and 50% As-free steel. 78% of the fractures occurred in non-arsenic

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steel samples. No brittle fracture could be observed in the proximity of the welding seam, in either kind of samples at low temperatures, proving that MSt.3kp steels are suitable for electrowelding. It was concluded that the MSt.3kp steel made of Kerchensk ore, with electrowelded seams and a 0.13% As content is superior to the same branch of steel not containing As, with regard to tensile strength, notch toughness, endurance and brittle fracture. There are 5 figures, 3 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and zavod "Azovstal'" (Azovstal' Plant).

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VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.;
 ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.;
 STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Primali
 uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.;
 SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.;
 ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.;
 LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.;
 KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.;
 GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.;
 PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance
 of blast furnaces. Koks i khim. no.12:26-32 '61.

(MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin,
 Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik,
 Vasil'yev, Shemel'). 2. Zhdanovskiy koksokhimicheskiy zavod
 (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov,
 Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, TSimbal). 3. Ural'skiy
 nauchno-issledovatel'skiy institut chernykh metallov (for
 Onopriyenko, Starshinov, Babi, Sen'ko, Konareva, Solodkiy).
 4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev,
 Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy,
 Ponomareva).

(Coke)

(Blast furnaces)

LUKASHOV, G.G., inzh.; SAVELOV, N.I., inzh.; PLISKANOVSKIY, S.T., inzh.

Blast furnace operation with air tuyeres of varying diameter.
Stal' 23 no.3:198-201 Mr '63. (MIRA 16:5)
(Blast furnaces--Design and construction)

LUKASHOV, G.G.; AVDEYEV, V.A.

Expansion and reorganization of the "Azovstal'" plant. Stal'
23 no.8:676-678 Ag '63. (MIRA 16:9)

1. Metallurgicheskiy zavod "Azovstal'".
(Zhdanov---Iron and steel plants)

RASPOPOV, I.V.; LUKASHOV, G.G.; PLISKANOVSKIY, S.T.; ARTYUKHOV, B.N.;
TARASOV, D.A.; ARIKHBAEV, V.V.; Primali uchastiye: ZENYUKOV,
V.P.; NEMTSOV, N.S.; GODLEVSKIY, A.I.; LEVCHENKO, G.F.;
DEGTYAREVA, Z.I.; GORLACH, A.A.; YAKUSHECHKIN, Ye.I.

Intensifying the sintering process by air preheating and by
improving the performance of exhaust fans. Stal' 23 no.8:
679-682 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy
zavod "Azovstal'."

(Sintering)

KAZANTSEV, I.G., prof.; LUKASHOV, G.G., inzh.; GORBANEV, Ya.S., inzh.; TARASOVA, L.P., inzh.; SAPELKIN, N.F., inzh.

Strength of welded joints in arsenic containing structural steel produced at the "Azovstal'" Plant. Stal' 23 no.12:1112-1114 D '63.
(MIRA 17:2)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy zavod "Azovstal'".

GERSHGORN, M.A.; SVIRIDENKO, F.F.; KAZARNOVSKIY, D.S.; KRAVTSOVA, I.P.;
POPOVA, A.N.; FRADINA, M.G.; Primali uchastiye: LUKASHOV, G.G.;
RUDOL'SKIY, N.L.; SLEPKANEV, N.P.; PLISKANOVSKIY, S.T.; GORBANEV,
Ya.S.; BUL'SKIY, M.T. [deceased]; ARKHANGEL'SKIY, Yu.N.; SHAROV,
B.A.; VISTOROVSKIY, N.T.; RAKHANSKIY, B.I.; SAPOZHKOY, V.Ye.;
RYABININ, N.G.; KARAKULINA, R.R.; FADEYEVA, A.M.; ZVEREV, D.A.

Improving the production of high-strength rails by alloying
them with granulated ferrochromium in the ladle. Stal' 25
no.5:408-411 My '65. (MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov i zavod
"Azovstal'".

ROTOV, Vyacheslav Ivanovich, doktor vet. nauk, prof.; LUKASHOV, I.I.,
zasl. deyatel' nauki Ukrainskoy SSR, doktor vet. nauk, prof., otv.
red.; DOBRZHANSKIY, V.N., red.; KVITKA, S.P., tekhn. red.

[Tuberculosis in poultry and measures for its control] Tuber-
kulez ptits i mery bor'by s nim. Kiev, Izd-vo Ukr. Akad.
sel'khoz.nauk, 1962. 216 p. (MIRA 15:9)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk imeni Vladimira Il'icha Lenina (for Lukashov).
(Tuberculosis in poultry)

LUKASHOV, N.V.

Using table feed mechanisms for fastening billets in devices for
milling. Nauch.trudy Tul.gor.inst. no.3:176-180 '61.

(MIRA 16:4)

(Feed mechanisms)

(Milling machines)

LUKASHOV, V.N.

Dynamics of the abundance of exploited roach, bream, and pike
perch stocks of the northern Caspian. Trudy sov. Ikht. kom.
no.13:445-453 '61. (MIRA 14:8)

1. Kaspiyskiy nauchno-issledovatel'skiy institut rybnogo
khozyaystva i okeanografii - KaspNIRO.
(Caspian Sea—Fisheries)

DORMAN, A.I.; LESHCHINSKIY, L.Z.; KIYASHKO, V.S.; BAKSHINOV, A.S.;
LUKASHOVA, A.N.

Pneumatic delivery of specimens of cast iron, steel, and slag
to the chemical laboratory. Metallurg 9 no.10:12-13 0 '64
(MIRA 18:1)

1. Magnitogorskiy metallurgicheskiy kombinat.

LUKASOVA, I.
CZECHOSLOVAKIA

BARTOS, J., POKORNY, J., ECKERT, V., KRUSINA, I., and TEISINGER, P., with technical cooperation of LUKASOVA, I., SLIVOVA, L., MATOUSOVIC, J., GRUNT, J., DYLEVSKY, J., and DUBSKY, J., First Clinic of Surgery (I. chirurgicka klinika), Faculty of General Medicine (Fakulta vseobecneho lekarstvi), Charles University, Prague, Prof. Dr. PAVROVSKY, director; Fourth Clinic of Internal Medicine (IV. interni klinika), Faculty of Internal Medicine, Charles University, Prague, Prof. Dr. M. PUCIK, director; Radiological Clinic (Radiologicka klinika), Faculty of General Medicine, Charles University, Prague, Prof. Dr. V. SVAB, director, [individual affiliations cannot be determined].

"Direct Revascularization of Myocardium Following an Experimental Infarct in Dogs"

Prague, Casopis Lekarů Ceskych, Vol CII, No 26, 28 June 63, p 725.

Abstract: Experiments lead to the following conclusions:

1. Anastomosis between the system and coronary artery is feasible even with a pulsating heart. 2. Infarct-like changes were observed following the tying of r. interventricularis. A partial adjustment took place following anastomosis. 3. Microscopic examination showed ischemic deposits in dogs with anastomosis
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CZECHOSLOVAKIA

Prague, Casopis Lekaru Ceskych, Vol CII, No 26, 28 June 63,
p 725.

in contrast to large infarcts in dogs without anastomosis.

4. A sudden inflow of blood into the ischemic deposit may be accompanied by an immediate fibrillation of chambers. It can be prevented by a temporary interruption of the blood flow by means of anastomosis and its slow and interrupted liberation.

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LUKASHOVA, L.V.

Two-stage air cleaning. Stek.i ker. 18 no.9:39 S '61.

(MIRA 14:10)

(Dust--Removal) (Ceramic plants--Heating and ventilation)

LUKASHOVA, M.D., inzh.; SHCHUROV, Sh.M., inzh.

New material for lumber boards. Tekst.prom. 25 no.2:54 F '65.
(MIRA 18:4)

1. Upravleniye vspomogatel'nykh materialov Gosudarstvennogo
komiteta po legkoy promyshlennosti pri Gosplane SSSR (for Lukashova).

L 58314-65 EWT(1)/EWA(b)-2/EWA(j) JK
ACCESSION NR: AP5013794

UR/0016/65/000/005/0080/0085
576.852.23.097.093.3

AUTHOR: Kamzolkina, N. B.; Lukashova, N. I.; Borisova, L. V.

TITLE: Titration of diphtheria toxin in cell cultures. Report II. The cytopathic effect in the titration of diphtheria toxin

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1965, 80-85

TOPIC TAGS: diphtheria toxin, colorimetry, titrimetry, tissue culture, cytology

ABSTRACT: The author reports the use of the cytopathic effect for determining the titers of diphtheria toxins of the same series as those investigated in a color test. He has studied HeLa, SOTs, SP, and guinea pig macrophages and in addition human A₁ transplantable amniotic cells and fibroblasts of 10- to 13-day-old chick embryos. The HeLa, SOTs, SP, A₁ and fibroblasts of trypsinized chick embryos were found to be equally sensitive to the cytopathic effect of diphtheria toxin. The minimum cytopathogenic doses of the latter for these cells ranged from 0.003 to 0.07 MLD, depending on the series of toxins used. The cytopathic effect proved to

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ACCESSION NR: AP5013794

be a more sensitive, simple, and convenient method of titrating diphtheria toxins than the color test. The incubation period in using the cytopathic effect for titrating diphtheria toxins varied with the dose of toxin and the cell strain. The SP cells and chick embryo fibroblasts had the longest incubation period. Orig. art. has: 1 figure, 1 table.

ASSOCIATION: Moskovskiy institut vaktsin i syvorotok im. Mechnikova (Moscow Institute of Vaccines and Sera)

SUBMITTED: 07Feb64

ENCL: 00

SUB CODE: LS

NO REL SOV: 000

OTHER: 004

Card 2/2

KLMZOLKINA, N.B.; LUKASHOVA, N.I.; ZAKHAROVA, N.S.; BORISOVA, L.V.

Use of cellular cultures for the determination of antitoxin
content in antidiphtheria sera. Zhur. mikrobiol., epid. i immun.
42 no.11:122-123 N '65. (MIRA 18:12)

1. Submitted April 14, 1965.

LIPKAN, M.F.; BARABOY, V.A.; LUKASHOVA, R.G. [Lukashova, R.H.]

Changes in the amount of nucleic acids in the organs of rats under the influence of X irradiation and the prophylactic action of propyl gallate. Ukr. biokhim. zhur. 34 no.2:167-175 '62.
(MIRA 16:11)

1. Laboratoriya biofiziki Instituta fiziologii im. A.A. Bogomol'tsa AN UkrSSR i kafedra radiologii Instituta usovershenstvovaniya vrachey, Kiyev.

*

KLYUYEV, G.M., kand.tekhn.nauk; YUNITSKAYA, Ye.I., starshiy inzh.;
RYAKOVA, E.Ya.; Prinimali uchastiye: PETROV, A.M.; SHISHKIN, A.F.;
KNAUS, O.M.; RUSAKOVA, R.A.; STEPANOVA, L.G.; KALINKIN, V.F.;
GOPKALOVA, N.K.; SACHKOV, V.F.; FROLOV, M.F.; LUKASHOVA, T.T.;
SAVKIN, P.S.

Grain-size distribution in the material produced by crushing rock.
Sbor. trud. NIIZHelezobetona no.3:69-90 '60. (MIRA 15:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut zhelezobeton-
nykh izdelii, stroitel'nykh i nerudnykh materialov (for Petrov,
Shishkin, Knaus, Rusakova, Stepanova, Kalinkin, Gopkalova, Sachkov,
Frolov, Lukashova, Savkin).

(Stone, Crushed)

LUKASHOVA, Ye.N.; SHAPOSHNIKOV, A.D.; LEBEDEVA, S.K., red.; KOSTINSKIY,
D.N., red.; CHEKANIKHIN, S.M., tekhn. red.

[Brazil and Guiana; 1:5,000,000]Braziliia, Gviana;
1:5.000.000. Moskva, Gos.izd-vo geogr.lit-ry, 1962.
____[Text] 1962. 51 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.)Glavnoye upravleniye geodezii i
kartografii.
(Brazil—Maps) (Guiana—Maps)

ALEKSANDROVSKAYA, Nataliya Vital'yevna; YERAMOV, Ruben Artemovich;
IGNAT'YEV, Grigoriy Mikhaylovich; LUKASHOVA, Yevgeniya
Nikolayevna; MARKOV, Konstantin Konstantinovich;
MIKHAYLOVA, Lyudmila Alekseyevna; RYABCHIKOV, Aleksandr
Maksimovich, prof.; SHAGIROVA, I.M., red.izd-va; YEZHOVA,
L.L., tekhn. red.

[Physical geography of parts of the world] Fizicheskaya
geografiya chastei sveta. [By] N.V.Aleksandrovskaya i dr.
Moskva, Gos.izd-vo "Vysshaya shkola." 1963. 546 p.
(MIRA 17:1)

LUKASHOVA, Ye.N.

Zonal regularities and the legend for a map of the earth's land-form types. Vest. Mosk. un. Ser 5:Geog.18 no.6:9-16 N-D '63.
(MIRA 16:11)

1. Kafedra fizicheskoy geografii zarubezhnykh stran Moskovskogo universiteta.

LUKASHUK, Nika Pavlovna; MARKOVA, S.M., red.; KAYDALOVA, M.D., tekhn.red.

[The Chinese radish is a valuable vegetable] Loba - tsennaia
ovoshchnaia kul'tura. Khabarovsk, Khabarovskoe knizhnoe izd-vo,
1960. 15 p. (MIRA 14:3)

(Radishes)

LUKASHUK, N.V.

USSR / Human and Animal Morphology (Normal and Pathological),
Lymphatic System.

S

Abs Jour : Ref Zhur - Biol, No 21, 1958, No 97118

Author : Lukashuk, N.V.

Inst : Kazan Medical Institute

Title : Changes Due to Aging and the Histological Structure of
the Wall of the Thoracic Duct.

Orig Pub : Sb. nauchn. robot. Kazansk. med. in-t. Kazan', 1957,
130-135

Abstract : It was shown on 131 thoracic ducts (TD) of humans of
various ages, that the length of TD in the newborn is
6-8 cm, in adults 30-42 cm. The thickness of the wall
of TD decreases from the beginning to its ostium. In
death from chronic diseases, the wall of TD thickens
and becomes collagenous. The thickness of the intima
of TD in children aged up to 1 year is 5-7 μ , in adults -
up to 31 μ . After 35 years of age, "collagenization" of

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USSR / Human and Animal Morphology (Normal and Pathological).
Lymphatic System.

S

Abs Jour : Ref Zhur - Biol, No 21, 1958, No 97118

the intima of TD is observed. The thickness of the median membrane of TD is more constant in the newborn (17-30 μ) than in adults (17-98 μ), and reaches its maximum at 30 years of age. Sclerotic changes in the wall of TD begin to develop after 35 years of age. The thickness of the external membrane of TD is 17-48 μ . Paired valves were discovered along the whole length of TD.

Card 2/2

LUKASHUK, N.V.

LUKASHUK, N.V., Cand Med Sci -- (diss) "Age related changes and the histological structure of the wall of the thoracic duct." Kazan', 1958. 15 pp (Kazan' State Med Inst) 200 copies (KL, 20-58,102)

Lukashuk, 1959
SOBOLEV, Nikolay Pavlovich; CHIKHACHEV, S.A., nauchnyy red.; LUKASHUK,
V.A., red.; TOKER, A.M., tekhn.red.

[Tool, gauge and templet making] Instrumental'no-lekal'nye
raboty. Izd.3., perer. i dop. Moskva, Vses.uchebno-pedagog.
izd-vo Trudrezervizdat, 1959. 274 p. (MIRA 12:11)
(Machine-shop practice)

KOMISSAROV, Vasilii Ivanovich; TIKHONOV, V.I., nauchnyy red.; LUKASHUK,
V.A., red.; PERSON, M.N., tekhn.red.

[General course in machine-shop practice] Obshchii kurs slesarnogo
dela. Izd.5., ispr. i dop. Moskva, Vses. uchebno-pedagog.izd-vo
Trudrezervizdat, 1958. 389 p. (MIRA 12:3)
(Machine-shop practice)

MUKIN, Isaak Moiseyevich; GORYAINOV, M.A., nauchnyy red.; LUKASHUK, V.A.,
red.; RAKOV, S.I., tekhn.red.

[Manual for young lathe operators] Spravochnik molodogo tokaria.
Izd.2., ispr. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Trudre-
zervizdat, 1959. 445 p. (MIRA 13:6)
(Turning--Handbooks, manuals, etc.)

BELOV, Ivan Vasil'yevich; ORANZHEREYEVA, Valentina Fedorovna;
NARTSISSOVA, Nina Vasil'yevna; GAPONOV, Petr Ivanovich;
BEZDOL'NIY, Konstantin Iosifovich; LUKASHUK, V.A., red.;
KOROBOVA, N.D., tekhn. red.

[For the aid of Scientific and Technical Society's activist
group; collected leading materials] V pomoshch' aktivu NTO;
sbórník rukovodiashchikh materialov. Moskva, Profizdet,
1963. 422 p. (MIRA 17:3)

KOZLOV, Ivan Ivanovich; LUKASHUK, V.A., red.; ZAYTSEVA, L.A., tekhn.
red.

[Treatment and rest in trade-union sanatoriums] Lechenie i
otdykh v profsoiuznykh zdavnitsakh. Moskva, Profizdat,
1963. 54 p. (MIRA 17:3)

*

LUKASHUK, Viktor Nikitich, MARTENS, S.L., red.; ZUYEVA, N.K., tekhn.red.

[Body maintenance of passenger cars] Sozhraneniia kuzova legkovogo
avtomobilia. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1957.
13 p. (MIRA 11:9)

(Automobiles--Maintenance)

STABNIKOV, P.V.; TURUKHANO, B.G.; DOBYRN, V.V.; MISHCHENKO, I.S.;
LUKASHUNAS, N.I.

Semiautomatic unit for measuring photographs of charged particle
tracks. Priib. i tekhn. eksp. 10 no. 5: 63-66 3-0 '65. (MIRA 1961)

1. Fiziko-tekhnicheskii institut AN SSSR, Leningrad. Submitted
Aug. 6, 1964.

LACKI, M.; LUKASIAK, A.; RUDOLF-SKOKOWSKA, M.; RZEWSKA, I.

Analysis of the physical growth and health and sanitary conditions
of children in grammar schools. *Pediatr pol* 36 no.9:941-953 3 '61.

1. Z Działu Metodyczno-Organizacyjnego — kierownik: dr med. I.Sztachelska
i z Sekcji Higieny Szkolnej-- Kierownik: dr med. M.Rudolf-Skokowska
Instytutu Matki i Dziecka w Warszawie Dyrektor: prof. dr med. Fr.Groer
z Departamentu Ochrony Macierzyństwa i Zdrowia Dziecka Dyrektor:
dr. med. E.Pomerska i z Działu Opracowań Statystycznych GUS Dyrektor:
A.Lukasiak.

(SCHOOL HEALTH)

(GROWTH)

KOZLOWSKI, Jan; LUKASIAK, Bozenna

Purpura simplex hemosiderotica. Przegl. derm., Warsz. 7 no.1:27-28 Jan-Feb 57.

1. Z. Kliniki Dermatologicznej A. M. w Warszawie. Dyrektor: prof. dr. S. Jablonska. Adres: Warszawa, ul. Koszykowa 82a. Klinika Dermatologiczna A.M.

(PURPURA
simplex hemosiderotica (Pol))

LUKASIAK B

JABLONSKA, S.; LUKASIAK, B.

Raynaud's syndrome and related spastic states of the peripheral arterioles.
Polski tygod. lek. 12 no.38:1441-1445 16 Sept 57.

1. (Z Kliniki Dermatologicznej A. M. w Warszawie, kierownik: prof. dr
med. S. Jablonska) Adres: Warszawa, ul. Koszykowa 82 a, Klinika
Dermatologiczna A. M.

(RAYNAUD's DISEASES, differential diagnosis,
capillaroscopy (Pol))

EXCERPTA MEDICA Sec 13 Vol 13/6 Dermatology June 59

1553. RAYNAUD'S SYNDROME AND SCLERODERMA - Zespół Raynauda a twardzina. I. Zmiany twardzinopodobne w zespole Raynauda i ich różnicowanie z twardziną - Jabłońska S., Łukasiak B. and Bubnow B. Klin. Dermatol. A.M., Warszawa - POL. TYG. LEK. 1957, 12/39 (1481-1486) Illus. 12

The authors discuss trophic disorders of the skin of the hands resembling scleroderma (pseudo-scleroderma) which appeared in a longstanding case of Raynaud's disease. They describe a case with lesions of that type, which clinically could not be distinguished from the initial sclerodactylia, and where the diagnosis was established principally on the basis of their investigations of sensory chronaxia, as well as of capillaroscopy and the histological picture. A critical discussion is given on the conception of 'acrosclerosis', which means either an initial generalized scleroderma with coexisting Raynaud's sign (modern American authors), or angio-neurotrophic disorders corresponding to scleroderma and to Raynaud's sign, and distinguished by Sella both from scleroderma and from Raynaud's disease. There is no ground for the classification of generalized scleroderma into a form preceded by Raynaud's sign and a form running without this sign. Two cases with an identical course are presented: in one of them Raynaud's syndrome was initially present and in the other it never appeared. Emphasis is placed on the value of capillaroscopic examination for establishing the coexistence of Raynaud's sign in scleroderma (the capillaroscopic results of the authors differ from those obtained by the Anglo-Saxon authors, which is probably due to the fact that they have described the lesions appearing in scleroderma with a coexisting Raynaud's sign as typical for scleroderma).

LUKASIAK, Bozena
JABLONSKA, Stefania; LUKASIAK, Bozena; BUENOW, Bogdan

Raynaud's syndrome and scleroderma. II. Development of generalized scleroderma in a case of Raynaud's dis. Polski tygod, lek. 12 no.40: 1528-1530 7 Oct 57.

1. Z Kliniki Dermatologicznej A. M. w Warszawie; kierownik: prof. dr S. Jablonska.

(RAYNAUD'S DISEASE, compl.
scleroderma, clin. aspects)
(SCLERODERMA, etiol. and pathogen.
Raynaud's dis., clin. aspects)

LUKASIAK, Bożena
JABLONSKA, Stefania; LUKASIAK, Bożena; BUBNOW, Bogdan

Facial hemi-atrophy & its relation to scleroderma. Polski tygod. lek.
13 no.6:201-207 10 Feb 58.

1. (Z Kliniki Dermatologicznej A. M. w Warszawie; kierownik: prof. dr
S. Jablonska) Adres: Warszawa, ul. Koszykowa 82a, Klin. Dermatologiczna.
(FACE, dis.
hemi-atrophy, differentiation from scleroderma (Pol))
(SCLERODERMA, differ. diag.
hemi-atrophy of face (Pol))

LUKASIAK, B.; BACIA, T.; FORMAS, J.

Studies on the mechanism of scleroderma. Behavior of sensory chronaxy in relation to pathological changes in various segments of the nervous system. Przegl. dermat. 48 no.8/10:229-234 '61.

1. Z Kliniki Dermatologicznej A.M. w Warszawie Kierownik: Prof. dr S. Jablonska.

(SCLERODERMA physiol) (SENSATION)

RUDZKI, Edward; CHORZELSKI, Tadeuz; LUKASIAK, Bozenna

Allergy and collagenoses. Studies on the mechanism of Arthus phenomenon. Przegl. dermat. 48 no.8/10:235-238 '61.

1. Z Kliniki Dermatologicznej A.M. w Warszawie Kierownik: Prof. dr. S. Jablonska.

(ALLERGY exper)

(COLLAGEN DISEASES exper)

LUKASIAK, Bożenna

Capillarotoxic factor. Przegl. dermat. 51 no.4:427-434 J1-Ag '64

1. Z Kliniki Dermatologicznej Akademii Medycznej w Warszawie
(Kierownik: dr. S. Jablonska).

LUKASIAK, H.

The influence of economical measures on price estimates in housing constructions.
p. 115.

Vol 27, no. 4, Apr. 1955. PRZEGLAD BUDOWLANY. Warsaw, Poland.

So: Eastern European Accession. Vol 5, no. 4, April 1956

BOLECHOWSKI, F.; MAZUR, M.; LUKASIAK, H.

Studies on the effect of certain diuretics on electrophoretic picture of serum proteins in rabbits. Acta physiol.polon. 11 no.5/6:663-664 '60.

1. Z I Kliniki Chorob Wewnętrznych Pomorskiej A.M.
Z Zakładu Farmakologii Pomorskiej A.M. w Szczecinie.
(BLOOD PROTEINS pharmacol)
(DIURETICS pharmacol)

LUKASIAK, H.; RENNERT, A.

Pectin-methyl-esterase in normal and tumor tissues of *Nicotiana tabacum*. Acta soc botan Pol 34 no.1:113-116 '65.

I. Department of Biochemistry and Department of Plant Physiology of the Lodz University. Submitted June 3, 1964.

LUKASIAK, Henryk

Pectin-methyl-esterase activities in healthy and tumorous stem tissues
of *Datura stramonium* L. Acta soc botan Pol 32 no.3:505-510 '63.

1. Katedra Biochemii, Uniwersytet, Lodz.

LUKASIAK, Jakub

The most frequently observed mosquitoes in Kudowo in Wroclaw region. Przegl. epidem., Warsz. 9 no.4:291-302 1955.

1. Z Zakladu Parazytologii Lekarskiej PZH w Warszawie.
(MOSQUITOES,
in Poland.(Pol))

EXCERPTA MEDICA Sec. 17 Vol. 3/5 Public Health May 57

1679. LUKASIAK J. Zakł. Parazytol. PZH, Warszawa. *Występowanie widliszka dziupliowego - *Anopheles Plumbeus* Stephens, 1828 (= *Nigripes* staeger, 1839) na ziemiach Polski. Occurrence of *Anopheles plumbeus* Stephens 1828 (= *nigripes* Staeger, 1839) in Poland
WIAD. PARAZYTOL. 1956, 2/4 (227-230) Illus. 1

In August 1954, at the park of Kudowa Springs (Wrocław district) larvae (fourth degree) and pupae of *A. plumbeus* were discovered in a tree hollow filled with water. After 11 days rearing winged males and females hatched from the larvae and pupae. The occurrence of this mosquito is frequently connected with health resorts (watering places) like Kudowa and Sochi, Sukhum, Yalta (Soviet Union).

JANICKI, Mikolaj; DYMOWSKA, Zofia; LUKASIAK, Jakub (Warszawa)

Warsaw as an endemic focus of malaria in Poland. Wiadomosci
parazyt., Warsz. 2 no.5 Suppl:27-28.1956..

1. Zaklad Parazytologii Lekarskiej P. Z. H.
(MALARIA, epidemiology,
in Poland, endemicity in Warsaw (Pol))

LUKASIAK, Jakub (Warszawa)

Appearance of *Anopheles bifurcatus* Meigen, 1818 (*Anopheles claviger*, Meig., 1804) in the Warsaw region. *Wiadomosci parazyt.*, Warsz. 2 no.5 Suppl:99-100 1956.

1. Zaklad Parazytologii Lekarskiej PZH.
(MOSQUITOES,
Anopheles bifurcatus in Poland (Pol))

LUKASIAK, Jakub (Warszawa)

Studies on individual variability of *Anopheles maculipennis* Meig.,
1818. Wiadomosci parazyt., Warsz. 2 no 5 Suppl:101-102 1956.

1. Zaklad Parazytologii Lekarskiej PZH.

(MOSQUITOES,

Anopheles maculipennis, variability (Pol))

LUKASIAK, Jakub

Appearance of *Anopheles maculipennis* Meig. races 1818 in Poland with special reference to Warsaw and its vicinity. Przegl. epidem., Warsz. 10 no.4:357-367 1956.

1. Z Zakładu Parazytologii Lekarskiej w Warszawie.

(MOSQUITOES

Anopheles maculipennis, distribution of races in Poland (Pol))

LUKASIAK, Jakub

Fauna of biting mosquitoes at Nether-Silesia. Wiadomosci parazyt.,
Warsz. 3 no.4:419-420 1957.

1. Warszawa.

(MOSQUITOES

in Poland (Pol))

LUKASIAK, JAKUB

JANICKI, Mikolaj; DYMOWSKA, Zofia; LUKASIAK, Jakub

Malaria in Poland from 1945 - 1955 with particular reference to its development in Warsaw. Przegl. epidem., Warsz. 11 no.2:109-121 1957.

1. Z Zakładu Parazytologii Lekarskiej PZH w Warszawie
(MALARIA, epidemiol.
in Poland (Pol))

POLAND/Zooparasitology - Mites and Insects as Disease Vectors. G-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43449

Author : Lukasiak, J.

Inst : -

Title : Prevalence of *Anopheles bifurcatus* Meigen, 1818 (*Anopheles Claviger* Meig., 1804) in Warsaw Territory.

Orig Pub : Przegl. epidemiol., 1957, 11, No 2, 123-130.

Abstract : Among mosquitoes caught in dwellings in Warsaw and its vicinity, *A. bifurcatus* were found. They were also found in buildings of Mokotov, Chernyakov, Slutsevo, and other districts. In dwellings, females predominated over males. The first females were found in the beginning of May, the last at the end of September or beginning of October. The length of the reproductive season was ~ 154 days. During the season two increases in the numbers of larvae and winged mosquitoes were noted-- during spring and

Card 1/2

POLAND/Zooparasitology - Mites and Insects as Disease Vectors.

G-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43449

autumn, which, evidently, corresponds to the number of generations. The numbers of mosquitoes and larvae was minimal in July and the beginning of August. Length of larval development is 35 days.

Card 2/2

IWANCZUK, Irena; LUKASIAK, Jakub

Studies on parasitic fauna in rat *Rattus* (*Rattus norvegicus* Erx. with special reference to carriage of *Hymenololepis nana* and *Girdia intestinalis*. *Wiadomosci parazyt.*, Warsz. 4 no.5-6:701; Engl. transl. 702 1958.

1. Z Zakladu Parazytologii PZH w Warszawie.

(TAPEWORM INFECTION,

hymenolepiasis nana in rats (Pol))

(GIARDIASIS,

in rats (Pol))

(RATS, dis.

giardiasis & hymenolepiasis nana (Pol))

3
LUKASIAK, Jakub; IWANCZUK, Irena

A particular case of cysticercosis in white mouse. Wiadomosci parazyt.,
Warsz. 4 no.5-6:705; Engl. transl. 706 1958.

1. Z Zakladu Parazytologii PZH w Warszawie.

(CYSTICERCOSIS,

in white mouse, spontaneous (Pol))

(MICE, dis.

cysticercosis, spontaneous (Pol))

LUKASIAK, Jakub; ZAWISIAK, Tadeusz; (Warszawa)

Mosquitoes most frequently found in dwellings in the Warsaw region.
Wiadomosci parazyt., Warsz. 4 no.5-6:767; Engl. transl. 767-768 1958.

(MOSQUITOES,
distribution in Poland (Pol))

LUKASIAK, Jakub

(Warszawa)

Appearance of stinging types of mosquitoes in the eastern part of the
Kampinos Forest. Wiadomosci parazyt., Warsz. 4 no.5-6:769: Engl. transl.
770 1958.

(MOSQUITOES,
distribution in Poland (Pol))

LUKASIAK, Jakub. (Warszawa)

Appearance of *Aedes (Finlaya) geniculatus* Oliv., 1791 (*A. ornatus* Meig-Eckstein) in the Polish part of Karkonesze Mountains (Sudetes). *Wia-domosci parazyt.*, Warsz. 4 no.5-6:771; Engl. transl. 772 1958.

(MOSQUITOES,

Aedes geniculatus, distribution in Poland (Pol))

LUKASIAK, Jakub

Appearance of developmental forms of *Anopheles maculipennis* Meig., 1818 in water in the Warsaw region. *Przegl. epidem.*, Warsz. 12 no.1:73-82 1958.

1. Z Zakladu Parazytologii Lekarskiej Panstwi. Zakladu Higieny w Warszawie.

(MOSQUITOES,

Anopheles maculipennis, distribution in Poland (Pol))

LUKASIAK, Jakub

Specific composition of the adult forms of mosquitoes found at large in Warsaw and its environs. Wiadomosci parazyt. 7 no.2:387-390 '61.

1. Zaklad Parazytologii Lekarskiej PZH, Warszawa.

(MOSQUITOES anat & histol)

LUKASIAK, Jakub

Occurrence of larval forms of mosquitoes in water basins in the area of Warsaw and its vicinity. Wiadomosci parazyt. 7 no.2:403-405 '61.

1. Zaklad Parazytologii Lekarskiej PZH, Warszawa.

(MOSQUITOES) (WATER SUPPLY parasitol)

LUKASIAK, Jakub

The fauna of larvae of some types of Culicinae detected in water reservoirs in the vicinity of Warsaw. Wiad. parazyt. 10 no.1:79-87 '64.

1. Katedra Parazytologii i Chorob Inwazyjnych Szkoły Głównej Gospodarstwa Wiejskiego, Warszawa.

Lukasiak, Jerzy

HOWORKA, Edward; LUKASIAK, Jerzy.

New method of production of hyaline membranes with placental extract. Gin. polska 26 no.4:439-443 1955.

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M. w Poznaniu.
Kierownik: prof. dr I.Roszkowski. E.Howorka, Poznan,
Kosciuszki 34 m.4.

(LUNGS, diseases,

exper. hyaline membrane induced with placental extract)

(PLACENTA,

extract, induction of exper. pulm. hyaline membrane)

(TISSUE EXTRACTS,

placenta, induction of exper. pulm. hyaline membrane)

HOWORKA, Edward; WOJCIECHOWSKI, Zbigniew; LUKASIAK, Jerzy

Studies on intra-uterine fetal anoxia. I. Behavior of hemoglobin and of erythrocytes in acute fetal anoxia in rats. Gin. polska 28 no.4:461-473 July-Aug 56.

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M. w Poznaniu
Dyrektor: prof. dr. I. Roszkowski. Poznan, Kosciuszki 34 m. 4.

(ERYTHROCYTES, in various diseases,
exper. fetal anoxia in rats (Pol))

(HEMOGLOBIN, in various diseases,
same.)

(ASPHYXIA NEONATORUM, experimental,
fetal anoxia in rats, erythrocytes & hemoglobin in (Pol))

[^]
LUKASIK, Jerzy
[^]

Problem of the co-existence of cancer of the cervix and pregnancy. Gyn.polska 30 no.6:691-704 N-D '59.

1. Z II Kliniki Chorob Kobietych i Poloznictwa A.M. w Gdansk
Kierownik: doc. dr med. W. Gromadzki.

(CERVIX UTERI neopl)

(PREGNANCY compl)

LUKASIK, Jerzy; NIEMIRO, Aleksandra

Role of a bacterial factor in symptomatic and non-symptomatic infections of the female genitalia. Gin.polska 31 no.6:641-649 N-D '60.

1. Z II Kliniki Położnictwa i Chorob Kobietych A.M. w Gdańsku
Kierownik: doc. dr med. Wojciech Gromadzki oraz Z Zakładu Mikrobiologii A.M. w Gdańsku Kierownik: prof. dr med. Stefan Kryński.

(GYNECOLOGY etiol)

LUKASIAK-WARDZINSKA, H.; POPOWICZ, J.

Determination of Fe^{3+} using sodium p-aminosalicylate. p. 893.

CHEMIA ANALITYCZNA. (Komisja Analityczna Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959

UNCL.

LUKASIEWICZ, ALEKSANDER.

LUKASIEWICZ, ALEKSANDER. Krajowe byliny 6zdobne. (1. wyd.) Poznan,
Panstwowe Wydawn. Naukowe, 1956. 250 p. (Poznanskie Towarzystwo
Przyjaci6l Nauk, Posen. Wydawnictwa popularno-naukowe. Nauki biologiczne,
nr. 2) (Home-grown decorative plants. 1st ed. 95 plates, bibl.)
NN Not in DLC

LUKASIEWICZ, ALEKSANDER.
SCIENCE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

LUKASIEWICZ, A.

The late autumn planting of evergreen plants. n. 69

WIADOMOSCI BOTANICZNE. (Polskie Towarzystwo) Krakow, Poland.
Vol. 1, no. 1/2, 1957.

Monthly List of East European Accessions (EEAI) IC, Vol. 9, no. 1, Jan. 1960.

Uncl.

LUKASIEWICZ, A

SCIENCE

PERIODICAL: WIADOMOSCI BOTANICZNE, Vol. 1, No. 3, 1957

LUKASIEWICZ, A. The influence of climatic factors on the growth of plants. p. 136

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April 1959, Unclass

LUKASIEWICZ, A.

Reproduction of the Madonna lily (Lilium candidum L.) without flowers. p. 119.

WIADOMOŚCI BOTANICZNE. (Polskie Towarzystwo) Krakow, Poland.
Vol. 3, no. 2, 1959.

Monthly List of East European Accessions (EEAI) LG, Vol. 9, no. 1, Jan. 1960.

Uncl.

LUKASIEWICZ, A.

The germinating of seeds of some species of the family Bromliaceae. p. 163.

WIADOMOSCI BOTANICZNE. (Polskie Towarzystwo) Krakow, Poland.
Vol. 3, no. 3, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

LUKASIEWICZ, 4.

1/2 (NB)

The reaction of Schiff bases with formic acid. I. Reduction with formic acid of the Schiff bases from ethylenediamine and aromatic aldehydes. Z. Eckstein and A. Lukasiewicz (Zakład Syntezy Org. P.A.N., Warsaw). *Bull. acad. polon. sci., Ser. sci. Chim., geol. et géograph.* 7, 789-93 (1960) (in German).—Heating $(CH_2NH_2)_2$ with $ArCHO$ in anhyd. alc. followed by an azeotropic distn. of H_2O with C_6H_6 or $PhMe$ afforded the Schiff bases, $ArCH=NCH_2CH_2N:CHAr$ (I). I with HCO_2H (a) heated 30 hrs. or (b) heated 10 hrs. with addns. of alkali salts of org. acids, gave $ArCH_2NHCH_2CH_2NH_2$ (II) and $ArCH_2NHCH_2CH_2NHCH_2Ar$ (III). II and III with salicylaldehyde gave $c-HOC_6H_4CH=NCH_2CH_2NHCH_2Ar$ and 2-(*o*-hydroxyphenyl)-1,3-methylenearylimidazolidine (IV), hydrolyzed easily to II and III. Ar of I m.p., I % yield, II % yield by a and b, III % yield by a and b, IV m.p., and II.HCl m.p., were: Ph, 55-6°, 89, 32, 24, 33, 46, 106-7°, 257-9°; 4- FC_6H_4 , 65-9°, 49, 30, —, 24, —, 108-9°, 234-6°; 2- ClC_6H_4 , 83-7°, 57, 20, 20, 24, 26, 141-2°, 251-3°; 3- ClC_6H_4 , 90.0-90.5°, 39, 30, 22, 30, 58, 85-0°, 261.0-1.5°; 4- ClC_6H_4 , 144-5°, 89, 29, 22, 20, 61, 164.0-5.5°, 272-4°; 4- BrC_6H_4 , 156.5-7.5°, 58, —, 25, —, 43, 167.5-8.5°, 286-8°; 4- IC_6H_4 , 190.0-1.5°, 98, —, 23, —, 42, 144.5-6°, over 292°; 2- NO_2 , 110.5-11.5°, 26, 25, 23, 20, 45, 172-3°, 216-17.5°; 3- $O_2NC_6H_4$, 161.5-2.5°, 97, 28, 20, 32, 57, 93-9°, 230-40°; 4- $O_2NC_6H_4$, 200.5°, 82, 29, 17, 27, 53, 161.5-3°, 244° (decompn.); 2- HOC_6H_4 , 125-6°, 98, —, —, —, —, —; 3- HOC_6H_4 , 197° (decompn.), 90, —, —, —, —, —; 4- $MeOC_6H_4$, 111-12°, 87, 35, 37, 13, 23, 93.5-9.5°, 243.5-5.0°; 2,3-(MeO) C_6H_3 , 119-20°, 98, —, 27, —, 32, 100-7°, 232° (decompn.); 2,5-(MeO) C_6H_3 , 92.5-3.5°, 89, —, —, —, —, —; 1-naphthyl,

134.5-5.5°, 90, —, 29, —, 42, 180.5-3.0°, 110° (decompn.); 2-naphthyl, 212-13.5°, 78, —, 21, —, 46, 128.5-9.5°, 276-8°; 2,3- $HO(MeO)C_6H_3$, 165.5-6.5°, 99, —, —, —, —, —; 4- $Me_2NC_6H_3$, 181-2.5°, 92, —, —, —, —, —; and 4- $Et_2NC_6H_3$, 131.5-2.5°, 84, —, —, —, —, —. Curves of yields of II and III against time were given for a few examples. Fungicidal activities of I against *Fusarium californicum*, *Alternaria tenuis*, and *Rhizoctonia solani* were examd.; the salicyl and 2-hydroxy-3-methoxy derivs. showed strong activity. This was attributed to the possibility of binding heavy cations with chelate formation. II. Action of aromatic aldehydes on *N,N'*-diformylethylenediamine in formic acid solution. A. Lukasiewicz and Z. Eckstein. *Ibid.* 797-802. — $HCONHCH_2CH_2NHCHO$ (1 mole) boiled 10-30 hrs. in HCO_2H with 0.5, 1, or 2 moles $ArCHO$ afforded a mixt. of $ArCH_2NHCH_2CH_2NH_2$ with $ArCH_2NHCH_2CH_2NHCH_2Ar$ (I), where Ar was Ph, 2-, 3-, or 4- ClC_6H_4 , or $O_2NC_6H_4$, 4- $MeOC_6H_4$, or 2-naphthyl. The yield of I was notably raised on addns. of HCO_2Na or HCO_2K . The reaction studied was probably an intermediate stage in the reactions described before (cf. above).

J. Steckl

LUKASIEWICZ, Aleksander

Durability of *Melandrium album* (Mill) Garcke. *Wiadom botan* 6
no.3:264-265 '62.

1. Ogród Botaniczny Uniwersytetu Adama Mickiewicza, Poznań.

LUKASIEWICZ, Aleksander

Two forms of life of *Anchusa officinalis* L. Wiadom botan 6
no.2:179-182 '62.

1. Ogród Botaniczny Uniwersytetu Adama Mickiewicza, Poznan.

LUKASIEWICZ, Aleksander

Development rhythmic of species of the genus *Thalictrum* L.
Wiadom botan 7 no.1:67-69 '63.

1. Ogrod Botaniczny Uniwersytetu Adama Mickiewicza, Poznań.

LUKASIEWICZ, Aleksander

Consequences of the slight spring frosts (April 30 - May 3, 1962) in the Botanical Garden of the Adam Mickiewicz University in Poznan. Wiadom botan 7 no.3/4:240-242 '63.

LUKASIEWICZ, Aleksander

Influence of external conditions on the development
rhythm of plants. Wiadom botan 8 no.2:175-177 '64.

GUMINSKA, Z.; LUKASIEWICZ, B.

Sword lilies in hydroponic, subsinky soil cultures. Wiadom
botan 6 no.3:261-263 '62.

1. Ogród Botaniczny Uniwersytetu Wrocławskiego, Wrocław.

TOKARSKI, M.; LUKASIEWICZ, B.

Vegatative propagation of *Cobaea scandens* Cav. and its hibernating.
Wiadom botan 8 no.3/4: Suppl: Biul ogrod botan no.3/4:252-254 '64.

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